

Supporting Information

Title of the manuscript: Sub-noxious Intravesical Lipopolysaccharide Triggers Bladder Inflammation and Symptom Onset in A Transgenic Autoimmune Cystitis Model: A MAPP Network Animal Study

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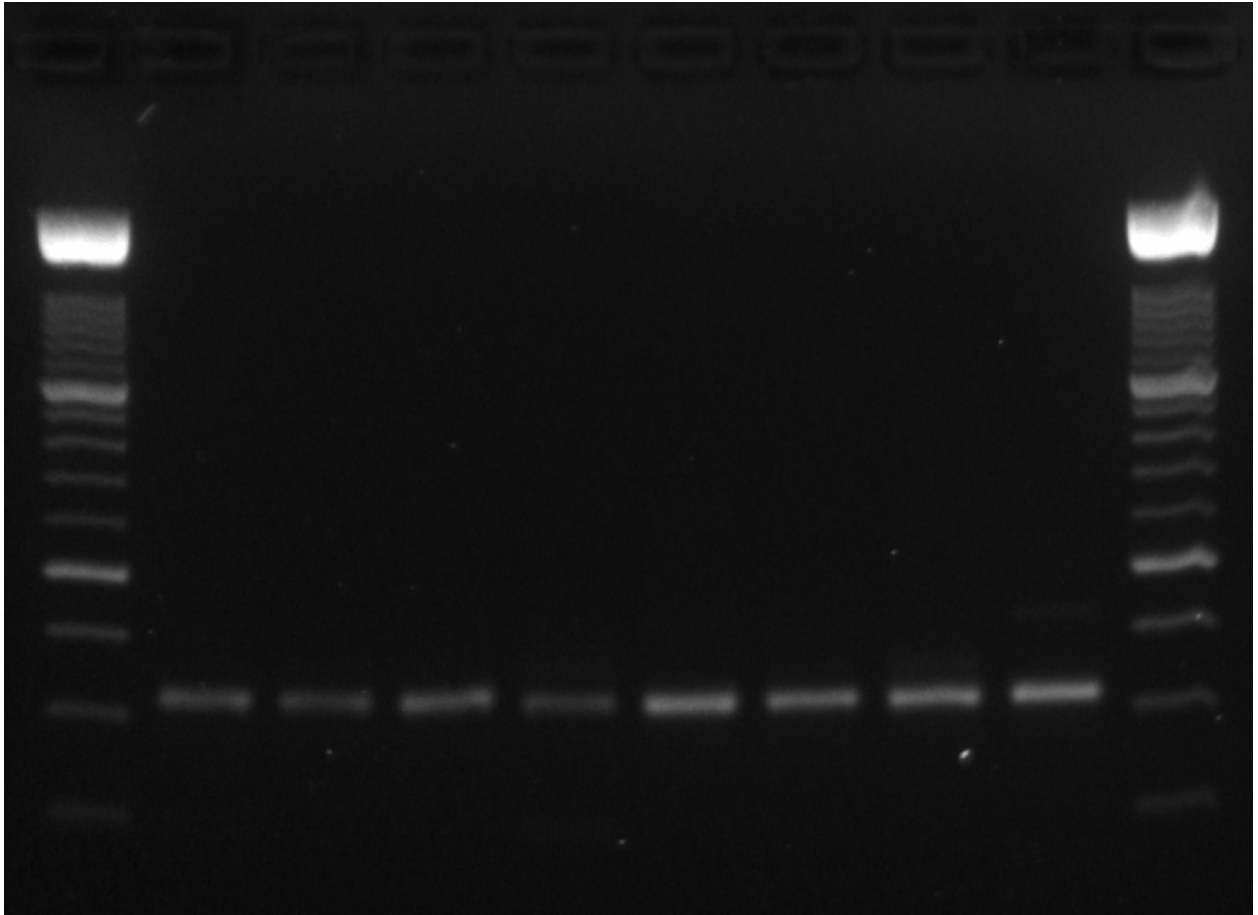
Supplementary Table S1. Changes in pelvic response to von Frey filament stimulation after a single sub-noxious dose of intravesical LPS in URO-OVA/OT-I mice (*p*-value: One-way ANOVA analysis with LSD post test. **p*<0.05 and ***p*<0.01 compared to PBS-treated group [Student's *t* test]).

	Pelvic Stimulation Force				
	0.04 g	0.16 g	0.4 g	1 g	4 g
PBS Day 1 (n=8)	7.5±2.5	16.25±2.631	18.75±3.504	26.25±2.631	32.5±3.66
LPS Day 1 (n=8)	13.75±4.978	25.0±13.177	32.5±3.660 *	47.5±4.910 **	58.75±5.154 **
LPS Day 7 (n=19)	14.21±2.205	21.58±2.327	33.68±2.779 **	45.79±3.361 **	62.11±3.296 **
LPS Day 14 (n=10)	9.0±2.333	18.0±3.590	25.0±3.727	35.0±3.727	49.0±6.227 **
<i>p</i>-value	0.291	0.355	0.016	0.002	0.001

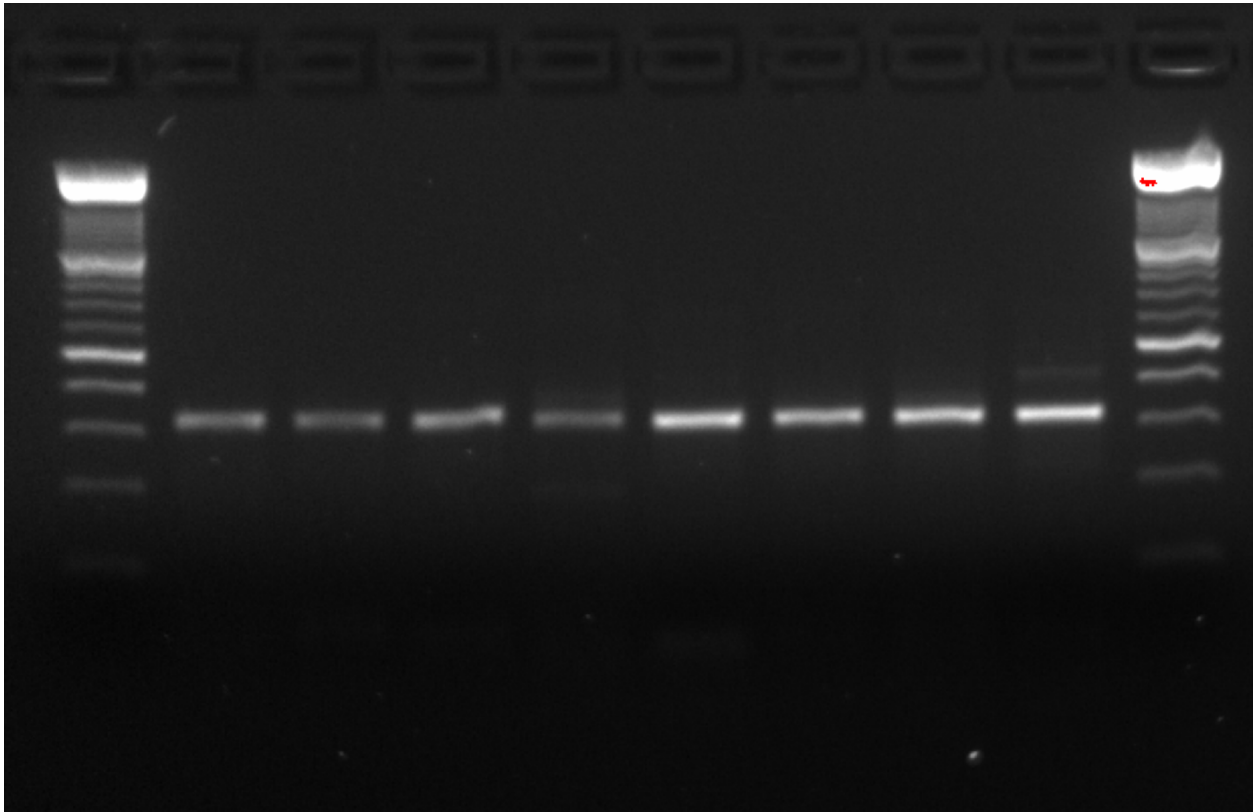
Supplementary Table S2. Voiding habits in URO-OVA/OT-I mice – baseline versus intravesical PBS treatment. There were no significant changes in voiding habits after a single intravesical PBS treatment compared to baseline voiding habits in the animal model (*24 hours after intravesical PBS treatment. *p* value: compared to baseline group [Student's *t* test]).

	Baseline (n=7)	PBS* (n=7)	<i>p</i> -value
Average volume voided per micturition, g	0.281 ± 0.0245	0.303 ± 0.030	0.579
Maximum volume voided per micturition, g	0.493 ± 0.043	0.498 ± 0.050	0.943
Total number of voids	5.0 ± 0.436	4.143 ± 0.404	0.175
in light	1.857 ± 0.261	2.0 ± 0.309	0.730
in dark	3.286 ± 0.286	2.143 ± 0.459	0.056
Total volume of voids, g	1.371 ± 0.134	1.201 ± 0.106	0.340

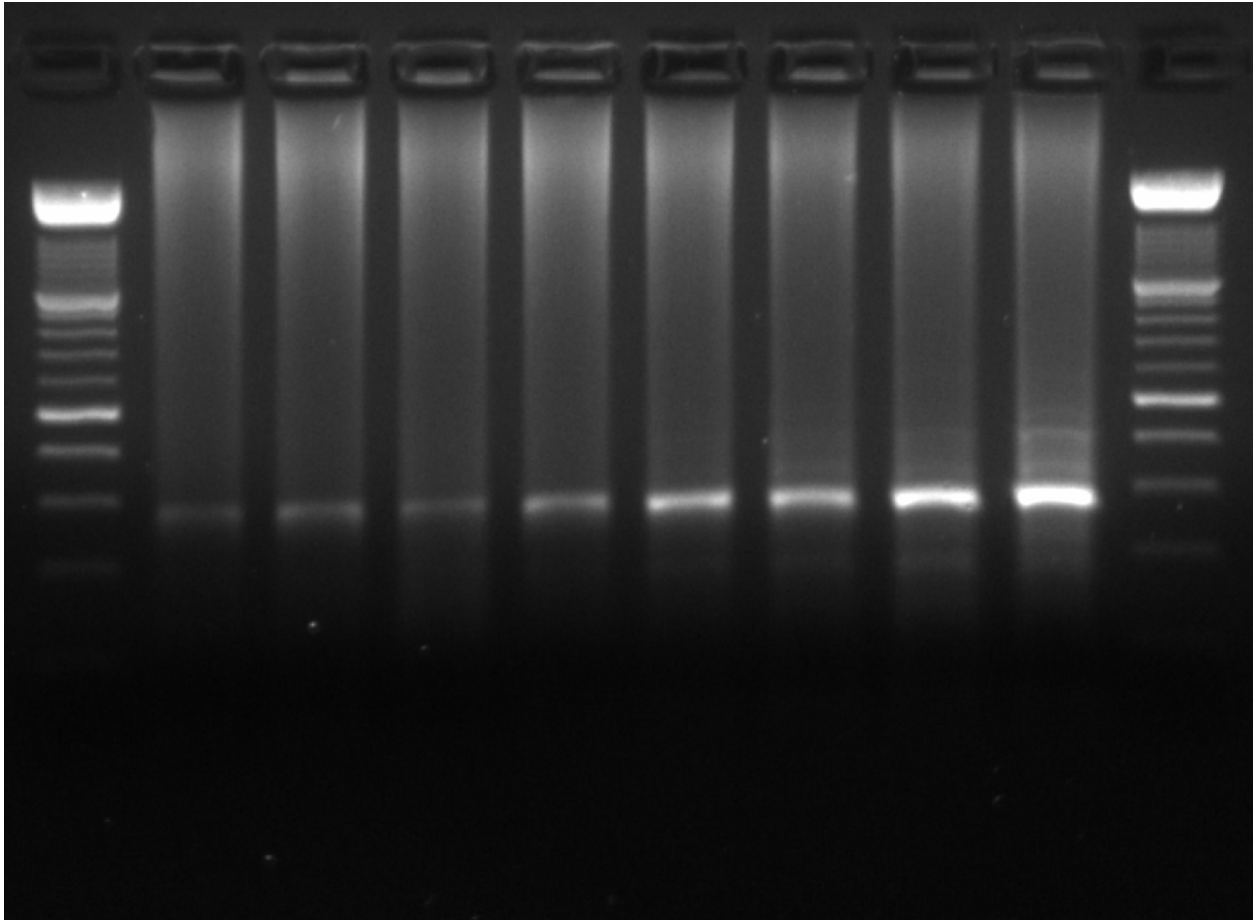
Supplementary Figure S1. A full-length gel for RT-PCR analysis of IL-1 β mRNA expressed by the bladders of URO-OVA/OT-I mice.



Supplementary Figure S2. A full-length gel for RT-PCR analysis of IL-6 mRNA expressed by the bladders of URO-OVA/OT-I mice.



Supplementary Figure S3. A full-length gel for RT-PCR analysis of pre-SP mRNA expressed by the bladders of URO-OVA/OT-I mice.



Supplementary Figure S4. A full-length gel for RT-PCR analysis of GAPDH mRNA expressed by the bladders of URO-OVA/OT-I mice.

